







# Marcellus Shale Gas Environmental Summit

Managing Risk and Maximizing Profits in the Marcellus Shale Gas Play

March 28-30, 2011

Renaissance® Pittsburgh Hotel, Pittsburgh, PA

## Why attend the Marcellus Shale Gas **Environmental Summit?**

- · Learn to develop natural gas resources responsibly
- Discover strategies to streamline permitting and compliance processes under stricter regulatory scrutiny
- Get tips and tactics from top PR executives to combat misinformation and public criticism

### Featuring sessions with:

· John Centofanti, EQT Corporation



- · Ralph Tijerina, Range Resources
- · Joseph A. Sestak, Jr, Immediate Past Member of the U.S. House of Representatives
- · Jim Crews, NiSource
- · Gary Slagel, Consol Energy
- · Stacey Brodak, Chesapeake Energy

## Featuring a Distinguished Speaker Faculty from Organizations such as:

- · Abarta Energy
- Caiman Energy
- Chesapeake Energy Corporation
- Consol Energy
- EQT Corporation
- **NiSource**
- Range Resources

- · DOI Bureau of Land Management
- FERC
- New York Department of **Environmental Conservation**
- · Pennsylvania Department of **Environmental Protection**
- · Pipeline and Hazardous Materials Safety Administration
- · Pennsylvania Public Utilities Commission
- EnergyInDepth.org
- Pennsylvania House of Representatives

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www.**ShaleGasEvent**.com

## Marcellus Shale Gas **Environmental Summit**

Managing Risk and Maximizing Profits in the Marcellus Shale Gas Play

March 28-30, 2011 | Renaissance Pittsburgh Hotel, Pittsburgh, PA

Welcome to IQPC's Marcellus Shale Gas Environmental Summit – the key meeting of the year for oil and gas executives driving the future development of the Marcellus shale play. The White House recently noted that "The development of shale gas is expected to significantly increase U.S. energy security and help reduce greenhouse gas pollution." Shale gas development will rejuvenate a challenged Appalachian industrial corridor, bringing much-needed business and jobs. Tapping the estimated 100-year supply of natural gas under our feet is good for American energy security, our environment and economy. However, everyone agrees that this valuable resource must be developed responsibly, mindful of groundwater, air, noise and light pollution, and proximity to parks and communities. IQPC will bring together oil and gas companies and associations, environmental experts, and federal and state regulators in Pittsburgh in March 2011 to discuss all of the regulatory problems and public relations issues facing E&P and midstream operations, and responsible courses of action for further development.

This unique energy event brings together executives in charge of Exploration, Environmental Management, Water Planning, Business Development, Governmental and Regulatory Affairs, and Public Affairs from the country's major Exploration & Production and Midstream oil and gas companies. You will learn how to tackle environmental challenges, permitting hurdles, and headline risk, and save time and money despite heightened regulatory scrutiny. Some highlighted topics include:

- m
  u Debunking GasLand: The Uphill Battle of Public Relations
- ✔ Best Management Practices
- ✓ The Myths, Realtities, and Opportunities of Hydraulic Fracturing
- ✓ The Future of New York Drilling
- And most of all, finding solutions to save you money and manage risk!

Don't miss this opportunity to exchange knowledge and understand the best-practices that will impact your company's ability to maximize profit while managing the environmental risks in the drilling, extraction, and transportation of shale gas from the Marcellus Shale.

I look forward to seeing you in March in Pittsburgh and welcoming you to our Marcellus Shale Gas Environmental Summit!

Best Regards,

William Anderson, Esq. Divisional Director - Oil & Gas P.S. Don't miss the highly interactive and informative pre-summit - see page 3 for details

#### Who Will You Meet at the Summit

Vice Presidents and Directors from the following departments of E&P companies:

- Marcellus and Appalachian Region
- **Exploration**
- **Environmental Management**
- · Water Planning and Management
- **Governmental and Regulatory Affairs**
- **Public Affairs**
- **Drilling and Completions**

Vice Presidents and Directors from the following departments of Pipeline and Transmission companies:

- · Marcellus and Appalachian Region
- · Supply and Origination
- Transmission and Storage
- Business Development
- · Public Affairs
- Government and Regulatory Affairs

Federal, State, and Local Regulators

#### **About the Organizer:**

Oil & Gas To a division of IQPC



Oil and Gas IQ, a division of IQPC, is your networking resource

and is designed to help you with the challenges you face everyday through our leading customer management conferences, training courses, email newsletter and webinars. These products are designed to create a learning atmosphere like no other by bringing together top customer management experts that share their knowledge and experience with our members.

#### **Sponsorship and Exhibition Opportunities**

Sponsorships and exhibits are excellent opportunities for your company to showcase its products and services to high-level, targeted decision makers attending the Marcellus Shale Gas Environmental Summit. IQPC and Oil and Gas IQ help companies like yours achieve important sales, marketing and branding objectives by setting aside a limited number of event sponsorships and exhibit spaces - all of which are tailored to assist your organization in creating a platform to maximize its exposure at the event.

For sponsorship opportunities, please contact Georgia Foster at 212-885-2799 or at sponsorship@iqpc.com

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## **Pre-Summit Workshops**

#### Monday, March 28, 2011

Bring your company's best practices to this workshop to understand where and how they can

be improved!



(Registration 8:45) Breakfast and coffee will be served

9:00am -11:30am

#### **Best Management Practices**

In the rapidly developing shale gas industry in Appalachia, techniques and technologies that worked in other shale plays may not be ideal for the terrain, weather, or environment of the Marcellus region. Despite a highly competitive atmosphere, to improve production and profitability, and protect the fragile ecosystem, oil and gas companies must band together to establish Best Management Practices (BMPs) for shale gas drilling.

#### This session will cover:

- Existing BMPs, including the Pennsylvania Oil and Gas Operators Manual.
- BMPs for sustainable development with minimal environmental and ecological impact.
- · Interim and Final Reclamation
- Reducing your exposure to risk and liability.

#### From this workshop, you will be able to:

- Adapt BMPs developed in other shale plays.
- Meet federal and state standards for land health.
- Coordinate with agencies developing BMPs.
- · Implement cost-saving strategies.

#### Jim Perry

Senior Natural Resource Specialist, Division of Fluid Minerals

**Bureau of Land Management** 

B

(Registration 11:45am) Lunch included

12:00-2:30pm

#### Managing Permitting in an Evolving Regulatory Landscape

This learning session will be guided by a leading regulatory expert. Utilizing successful permitting case studies, this workshop will delve deeply into the ins and outs of successful permitting, including details on the permitting processes of Pennsylvania, Ohio, West Virginia, and New York.

#### This session will cover:

- · Alternate Waste Management Practices
- · Spill Reporting Requirements
- · Water Management Plans
- · Constructing Impoundments
- · Dam Safety Permit
- Chemical Analysis of Residual Waste Annual Report by Generator
- · Erosion and Sediment Control

- Use of Explosives
- · Transport Regulation

#### From this workshop, you will be able to:

- · Successfully plan your permitting process
- · Anticipate and align the turnaround times for various permits
- Keep your drilling operations running smoothly.

#### Tanya McCoy-Caretti

Local Government Market Segment Leader

#### L.R. Kimball

#### **Greg Lorson**

Chief Executive Officer

TEEMCO - Total Energy & Environmental Management Co.



(Registration 2:45pm)

3:00-5:30pm

### Mitigating the Environmental Impacts of Hydraulic Fracturing

Innovations in horizontal drilling and hydraulic fracturing have stimulated significant growth and advancement in the shale gas industry. Successful applications of these two technologies have made shale gas E&P more economically favorable; however, there are a number of environmental issues that bear on the success of project development and well completion. In this workshop, you will learn about best-practices to optimizing hydraulic fracturing and project design through understanding and managing associated environmental implications.

#### This session will cover:

- Assessing reservoir-specific exploration criteria and potential operational challenges
- Monitoring technologies, such as microseismic fracture mapping and tilt measurements, to enhance stimulation treatments
- Appraising frack fluids and additives, and methods for ensuring slickwater fracturing treatments are environmentally safe

#### From this workshop, you will be able to:

- · Minimize spill and leak risks of fracking chemicals.
- Select DOT approved chemical containers.
- · Implement containment and diversion systems for fracking fluids.

#### John Gottschling

Region Technical Manager

#### **Baker Hughes**

**Mike Kinney** Business Platform Leader

**New Pig Corporation** 

#### Beth Powell

Business Platform Leader

**New Pig Corporation** 

#### **Chris Eichelberger**

Director – Business Development

American Environmental Group

#### John Beeman

General Manager of Operations

**American Environmental Group** 

"Energy security is national security."

- President Barack Obama

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## **Main Summit Day 1**

### Tuesday, March 29, 2011

#### 8:00 Registration & Coffee

#### 8:30 Chairperson's Welcome & Opening Remarks

David Levdansky, Former Representative, Allegheny, Pennsylvania House of Representative

## 8:45 Opening Keynote: Exploring Opportunity and Managing Risk in the Responsible Development of Shale Gas

**Joseph A. Sestak, Jr,** Member of the U.S. House of Representatives Pennsylvania 7th District (2007 – 2011)

#### 9:30 The Honest Truth on the Environmental Impact of Shale Gas Production

Let's face it – drilling is a dirty, noisy and potentially dangerous activity. This reality, however, need not lead to the conclusion that shale gas E&P is harmful to the environment. The Environmental Defense Fund has acknowledged that "in the vast majority of cases, if wells are constructed right and operated right, that hydraulic fracturing will not cause a problem." EQT's Director of Safety and Environment weighs the environmental benefits and risks of natural gas exploration, development, production, and transportation.

John Centofanti, Director of Safety and Environment, EQT Corporation

#### 10:15 Networking & Coffee

Meet the producers, operators, managers and regulators who move and shape the natural gas industry!

#### 11:00 Realizing Opportunity and Promoting Sustainable Shale Gas Production though Use of Biocides in Hydraulic Fracturing

Shale gas, unlocked by hydraulic fracturing technology, holds vast potential to the United States and Canada economically – by providing domestic jobs and reducing reliance on foreign energy sources – and environmentally – by allowing for more clean-burning natural gas to be used in place of less environmentally conscious energy sources. Unfortunately, unscientific claims directed at hydraulic fracturing and the chemicals that enable it can detract from that positive message. This presentation will address the use of biocides in fracturing fluids and how the rigorous testing and regulation of these chemicals can be used to inform and reassure stakeholders of their contribution to sustainable shale gas production. In this session you will learn:

- Practical considerations in using biocides
- Results from biocide-based fracturing fluid operations
- Regulatory initiatives addressing hydraulic fracturing
- Communicating the science of biocides to the public

Donald J. Love, Senior Technical Service and Development Specialist, Dow Microbial Control

#### 11:45 Water Safety

The impacts of oil and gas development on water quality are making headlines across the country. Of particular concern are hydraulic fracturing and the storm water runoff from construction activities. This session is designed to provide an introduction to the problems and best practices for each of these issues.

- · Developing water management plans
- · Alternatives to trucking water supplies
- Building water transmission lines for drilling operations to coexist with gas pipelines
- Reusing and recycling water supplies
- · Erosion and soil control
- · Storm water management

Ralph Tijerina, Director of Health, Safety and Environment, Marcellus, Range Resources

Chuck Kozora, Regional Business Development Manager, Aquatech International Corporation

Dave McCarty, Regional Manager, Aquatech International Corporation

#### 12:30 Networking Luncheon

#### 1:30 The Regulation of Liquids in the Shale Play

Management of water use and wastewater discharge compliance are crucial elements impacting various stages of operation in shale gas drilling and recovery. Several important regulatory schemes impact the manner by which operators manage liquids used in the fracking process and the handling of produced water. This session will present a comprehensive regulatory overview of the regulation of liquids and best practices for achieving responsible and safe compliance with the various standards from state and federal regulators.

Beth Powell, Business Platform Leader, New Pig Corporation

## 2:15 Effective Planning and Construction of Pipeline Infrastructure

Spanning vast expenses and varied environments along the already crowded east coast requires strategic planning and careful preparation. The successful operator will establish best practices to manage the logistical and supply chain hurdles that are integral to any pipeline projects. With everything from drinking water to mosquito populations at risk, hear about some best practices to manage this crucial facet of gas operations, including:

- Effectively completing preconstruction surveys to
- Addressing the unique environment of underwater pipes.
- Merging gas pipeline among existing water and sewer lines
- · Best practices in infrastructure asset management

Jim Crews, Director of Gas Supply, NiSource

#### 3:00 Networking & Coffee

#### 3:30 Working with Communities

Small towns are witnessing a boom of industry, including new drills and pipelines, increased truck traffic, and new sights and sounds. Proactively engaging the community is a company's best defense against criticism and opposition, and can help business integrate and run more smoothly for years to come.

- Helping small towns with growing pains from the influx of business
- Training community first responders.
- Engaging the public in citizen surveillance.
- Working with landowners.
- Preventing third party damage.

Stacey Brodak, Manager of Corporate Development, Chesapeake Energy

Craig Konkle, Operations & Training Supervisor, Lycoming County, Pennsylvania

#### 4:15 Worker Safety

Hear the current status of OSHA enforcement strategies to eliminate the common hazards of shale gas well drilling.

- Applicable OSHA standards commonly enforced in Gas Well Drilling/Servicing operations and OSHA Region 3's Regional Emphasis Program for programming inspection activity in PA and WAY
- OSHA's efforts to reach out and assist drillers and well servicing companies to better understand the hazards commonly found, the applicable OSHA standards, and the training of workers in this high hazard industry.
- Identifying the legal risks, economic value, and morale benefits of proper occupational health and safety standards.

Ken Fleeman, Director of Engineering, Abarta Energy

5:00 End of Summit Day 1

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## **Main Summit Day 2**

## Wednesday, March 30, 2011

#### 8:00 Registration & Morning Networking Breakfast

#### 8:30 The Future of Pennsylvania Regulation of Shale Gas Drilling

An adversarial relationship between the shale gas industry and environmental/conservation/citizen groups threatens to impede the long-term development of the gas resource to the benefit of all. Federal, state, and local governments, citizen, conservation, environmental and worker organizations, working with a responsible gas industry, can result in the orderly development of natural resource that creates jobs for Pennsylvanians and value to shareholders, all while supporting Pennsylvania's conservation heritage and protecting the environment.

In this forward-looking keynote opening keynote, Mr. Levdansky will address unresolved issues including:

- Surface and groundwater protection
- · Fracwater treatment/disposal and disclosure
- · Workforce training and development
- · Strategies effective DEP enforcement
- · Local government impacts and zoning

**David Levdansky,** Former Representative, Allegheny, **Pennsylvania House of Representatives** 

### 9:15 Proactively and Reactively Managing Public

As we continue to see, it'll take much more than drill bits and pressure pumps to convert the enormous potential of the Marcellus Shale into the reality of jobs and revenue for the region. It will also require a coordinated strategy for managing the myriad issues that exist "above ground" – issues that must be addressed with a forthright and substantive approach to communicating facts and debunking myths. Created in 2008, Energy In Depth has quickly emerged as a national leader in helping to shape that continuing debate. Join EID's Chris Tucker, a native of Northeast PA, for a discussion on the role that communications has and will continue to play as the development of the Marcellus moves ahead.

- Learn about the tangible tools used to communicate key messages that enlighten public perception of shale gas production
- Understand the specific areas of public concern in order to bridge relations and move forward
- Communicate the positive economic and technical truths of shale gas production to the public to effectively target misconception

Chris Tucker, Spokesman, EnergyinDepth.org

#### 9:45 Networking & Coffee

Meet the producers, operators, managers and regulators who move and shake the natural gas industry!

#### 10:15 Coordinating the Permitting Process: Upstream

A look at regulatory issues and concerns currently facing Marcellus Shale producers and their impact on site development, drilling and midstream activities. Industry efforts to respond to and comply with these constantly changing requirements will be reviewed and industry plans going forward will be discussed.

- · Managing operations through evolving policy initiatives.
- Ensuring ongoing compliance with changing permitting requirements on:
  - Water sourcing.
  - Air pollution.
  - · Chemicals.

- Wastewater.
- Reducing your permitting timeline.
- Creating a culture of compliance.

Gary Slagel, Director of Government Affairs, Consol Energy

## 10:45 Midstream Development in the Marcellus Shale Play

The Marcellus Shale Gas play expansion has caused a flurry of activity among major interstate pipes and midstream operators, with new projects and expansions totaling billions of dollars completed, under construction or announced. This session will a commercial overview of midstream activities of a leading midstream operator in the Marcellus Shale play. You will learn about the commercial development , best practices on topics covering:

- Construction
- Flow Assurance
- Strategic Partnerships
- Options and Opportunities

Art Cantrell, VP of Business Development, Caiman Energy

#### 11:15 Managing Backside Gas Environmental Concerns in Well Casing and Completions

In this session, we will review the challenges and technologies involved in ensuring well integrity and managing backside gas issues. You will understand the technologies deployed in well completion, the evolution of key techniques, and design and execution challenges. Baker Hughes will present case studies to help developers identify common risks and problems that arise with completions for shale reservoirs, including:

- Regulatory history and current environment for Backside Gas
- Integrated well construction process to eliminate backside gas Its not just the cement slurry
- Surface, intermediate and long string casing
- Mechanical barriers to gas migration
- Definitions and misconceptions related to annular gas migration (SPE 90829)
- Cement job design
- Cement job evaluation
- Where do we go from here?

John Gottschling, Region Technical Manager, Baker Hughes

#### 12:15 Networking Luncheon

#### 1:15 The Future of Hydraulic Fracturing Regulation

While hydraulic fracturing has been in use for years in the coal industry, the controversy over fracking in shale gas production is at its peak, with the FRAC Act sitting before Congress and a moratorium in effect in New York State. Public misunderstanding of exemptions in the Safe Drinking Water Act and Resource Conservation and Recovery Act exacerbate public uproar and criticism, and provoke heightened legislative scrutiny. With so many changes in the regulatory regime, hear perspectives on the future of fracking, including:

- · Federal vs state legislation.
- · The future of the FRAC Act.
- · The EPA's study on its environmental impacts.
- Requirements and options for disclosing chemical compositions.
- Mitigating migration risks.

George Jugovic Jr., Director, Pennsylvania Department of Environmental Protection Southwest Regional Office

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#### 2:00 Panel Discussion: Pipeline Regulation

In the crowded Northeast U.S., pipeline regulations tightly control rights-of-way and construction. With many new pipeline projects held up in the permitting process, the regulatory insights of Federal Energy Regulatory Commission, PHMSA, and the Pennsylvania PUC can help smooth the way to increased function, greater production, and wider distribution from Marcellus shale gas.

- Ensuring conformance with NGA and NGPA standards.
- Understanding the rates, terms and conditions of natural gas storage and transportation.
- Complying with rules for pipeline maintenance and performance.
- Adapting the existing regulatory framework to the need for new infrastructure.

**Douglas Sipe,** Outreach Manager, Division of Gas Environment and Engineering, **Federal Energy Regulatory Commission** 

Paul Metro, Gas Safety Supervisor, Pennsylvania Public Utilities Commission

### 3:00 Afternoon Networking & Refreshment Break in the Exhibit Hall

#### 3:30 EPA Regulations

Water is crucial to the development of deep natural gas deposits in shale. Millions of gallons of water are used to extract natural gas from shale, but they don't have to be wasted.

Kathleen Malone, Region 2 Coordinator, Environmental Protection Agency

#### 4:15 Chairperson's Closing Remarks

#### 4:30 End of Summit

## Venue Information Summit Venue

#### Renaissance® Pittsburgh Hotel

107 6th Street Pittsburgh, Pennsylvania 15222 USA

Phone: 1-412-562-1200 Fax: 1-412-992-2010 Sales: 1-412-562-1200 Toll-free: 1-800-468-3571

**Accommodation:** Group room rates have been arranged at the nearby hotel, The Wyndham Grand Pittsburgh Downtown.

The Wyndham Grand Pittsburgh Downtown 600 Commonwealth Place Pittsburgh, PA 15222 (412) 391 - 4600 Be fulfilled. If there is a more ideal setting for a Pittsburgh area hotel, we have yet to find it. Prominently embraced by the confluence of Pittsburgh's famed three rivers, Wyndham

Grand Pittsburgh Downtown is your gateway to the city of Pittsburgh. Our iconic hotel delivers hospitality as dynamic and refreshing as our city's distinctive landscape, renowned arts community, growing global industries, and proud cultural heritage. Come see what's inside. You'll find the warmth of home with style all our own. Be fulfilled. If there is a more ideal setting for a Pittsburgh area hotel, we have yet to find it. Prominently embraced by the confluence of Pittsburgh's famed three rivers, Wyndham Grand Pittsburgh Downtown is your gateway to the city of Pittsburgh. Our iconic hotel delivers hospitality as dynamic and refreshing as our city's distinctive landscape, renowned arts community, growing global industries, and proud cultural heritage. Come see what's inside. You'll find the warmth of home with style all our own.

#### Group Rate - \$139 + 149

Please identify you are part of the **IQPC** - **Shale Gas** events to ensure the special rate. Note that you are eligible for this rate three day prior and three days post the event based on availability.

Reservations Telephone – 800-WYNDHAM

Please make your reservation before March 26, 2011 in order to ensure you are eligible for the group rate.

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absorbents in the world including our PIG® mats, socks, booms, pillows and pans. We also offer proven products for containment, spill response, material handling, plant maintenance and safety. New Pig is located in central Pennsylvania and was voted One of the Best Places to Work in PA.



Aquatech International Corporation, a Canonsburg, PA (USA) company provides multi-tier solutions and services for the treatment of well flowback and produced waters, thereby enabling Aquatech to be a single source provider for meeting the current and evolving water treatment demands and requirements for the Oil & Gas Industry.

treatment demands and requirements for the Oil & Gas Industry. Aquatech's multi-tier solutions at well pad include MoTreat™, a mobile pretreatment system for removal of solids, heavy metal, hardness reduction and additional options; MoVap®, a mobile distillation system for dissolved solids removal. Well pad treatment results in maximum treated water suitable for safer reuse and reduced trucking bringing cost benefits to the gas operator and promoting common good. These well pad solutions are complemented by a suite of central and regional facility technology treatment using modular evaporator and crystallizer units for producing treated water for reuse or discharge per regulation. The salts present in the wastewater are converted to useful by products. These offerings are backed by over 30 years of Aquatech technology, operation and service experience for both global and local markets.



**TEEMCO, LLC** (Total Energy & Environmental Management Co.) is a onestop-shop providing environmental compliance services to over 1,000 oil & gas company clients. As consulting environmental engineers; the company prepares SPCC Plans, storm water pollution prevention plans

company prepares SPCC Plans, storm water pollution prevention plans, Air Permits, and a variety of other related services. TEEMCO has a fully-accredited online university it uses to provide EPA recognized, client training. It also has a product supply catalogue with over 85 environmental & safety products. The company serves its clients nationwide through regional offices in Oklahoma City, Pittsburg, KS, Houston, Washington, D.C., Pittsburgh, PA, and Midland, TX.



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NGI's Shale Daily is the first daily publication devoted exclusively the enormous shale revolution that is rewriting the energy outlook in North America. For its new publication, NGI has drawn upon its 30 years

experience surveying and publishing natural gas prices to develop the first natural gas Shale Price Indices (SPI) for 11 key unconventional resource plays in North America. Also included is NGI's Shale Daily Unconventional Rig Count Table, which utilizes county-level rig data provided to NGI by Schlumberger's Smith Bits and reflects drilling levels in the key shale plays across North America. Shale Daily also provides insightful reports on new discoveries and production trends, transportation and processing, what industry leaders are saying, the facts and figures from company earnings reports, infrastructure build out, analyst commentary, and local, state and federal politics affecting the natural gas and oil shale developments in North America. http://shaledaily.com/

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## Marcellus Shale Gas nvironmental Summit\*

YES! Please Register Me For:

March 28-30, 2011 | Renaissance® Pittsburgh Hotel, Pittsburgh, PA

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I cannot attend, but please keep me informed of all future events.

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Main Summit Only	\$1,799 (save \$200)	\$1,999	
All Access	\$2,699 (save \$947)	\$2,899 (save \$747)	
Workshop Only	\$549	\$549 each	

Please note multiple discounts cannot be combined.

A \$99 processing charge will be assessed to all registrations not accompanied by credit card payment at the time of registration.

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\* CT residents or people employed in the state of CT must add 6% sales tax.

Team Discounts: For information on team discounts, please contact IQPC Customer Service at 1-800-882-8684. Only one discount may be applied per registrant.

Special Discounts Available: A limited number of discounts are available for the non-profit sector, government organizations and academia. For more information, please contact customer service at 1-800-882-8684.

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Payment Policy: Payment is due in full at the time of registration and includes lunches and refreshment. Your registration will not be confirmed until payment is received and may be subject to cancellation.

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